



NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
State Capitol  
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1975

1. Name of Firm or Organization: Basin Electric Power Cooperative
2. Plant Location: Stanton, ND Mercer County
3. Permit to Operate Number: 730004
4. Source Unit Number (from Permit to Operate): 1 (one)
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>1,335,704 Tons</u> (Specify Units)  Delivered Cost of fuel <u>\$3.67 per ton</u> (\$/Unit Quantity)	Type <u>#2 Fuel Oil</u> Quantity per year <u>212,620 Gallons</u> (Specify Units)  Delivered Cost of fuel <u>\$0.34 per gal.</u> (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	As Received  11.16 7.02 9.08	
PERCENT SULFUR Max. Min. Avg.	0.71 0.42 0.53	
BTU PER UNIT Max. Min. Avg.	6669 6179 6426	140,000

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>#2 Fuel Oil</u>		Type <u>Lignite</u>	Type <u>#2 Fuel Oil</u>
	Units <u>Tons</u>	Units <u>Gallons</u>		Units <u>Tons</u>	Units <u>Gallons</u>
Jan.	126,655	10,250	July	85,761	30,490
Feb.	112,185	13,400	Aug.	108,082	25,230
March	123,731	22,600	Sept.	109,810	18,200
April	93,806	22,150	Oct.	133,139	3,950
May	109,456	24,150	Nov.	110,655	10,100
June	104,795	16,700	Dec.	117,629	15,400

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>#2 Fuel Oil</u> Units <u>Gallons</u>
Maximum	180	354
Average	162	26

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 49

Days Per Week 7 Peak Season Base Load  
(Specify Months of Year)

Total Hours Per Year 8232 (8254 in 1975)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	10.2	42
Sulfur Dioxide	2820	11,640
Nitrogen Oxides	1510	6230
Other (Specify)	Opacity 8%	

Basis For Quantities Listed Above:

Particulate emissions were measured in electrostatic precipitator performance acceptance tests by Research - Cottrell, Inc.

Sulfur dioxide, nitrogen oxides, and opacity are monitored continuously with an Environmental Data Corp. stack monitor.

10. Name of Person Submitting Report (Print or Type) Kent E. Janssen

Title Manager of Production Phone 223-0441

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Kent E. Janssen Date 2/11/76